

At the annual meeting in December, the following officers were elected to serve during 1880:—

<i>Director</i>	. . . . .	John L. Leconte, M.D.
<i>Vice-Director</i>	. . . . .	Geo. H. Horn, M.D.
<i>Recorder</i>	. . . . .	Jas. H. Ridings.
<i>Treasurer</i>	. . . . .	E. T. Cresson.
<i>Conservator</i>	. . . . .	Geo. B. Cresson.
<i>Publication Committee</i>	. . . . .	Geo. H. Horn, M.D., Samuel Lewis, M.D.

All of which is respectfully submitted,

GEO. H. HORN, M.D., *Vice-Director,*
for the Recorder.

REPORT OF THE BOTANICAL SECTION.

The Vice-Director of the Botanical Section has much pleasure in reporting to the Academy the satisfactory progress it has made during the past year. The Section now consists of thirty-five members, and the meetings held every month, except August and September, have been well attended. At these meetings many new and valuable facts in relation to our local flora, as well as to the science of Botany in general, have been contributed by many of the members. Of the papers read before the meetings one by Mr. Ellis, of Newfield, New Jersey, and one by Professor Asa Gray, have been of such general importance as to receive the recommendation of the Section to the Academy for publication in its proceedings.

In regard to the valuable Herbarium it is pleasant to report that the additions of the past and previous year together are far beyond those of any period for many years past.

That so many distinguished men should have aided the Academy in this handsome manner shows their high appreciation of its work and usefulness. In the arrangement of the Herbarium a place has been reserved for every genus, and it is gratifying to note that the *hiati* are now mostly of genera from regions rarely explored, and that even these are gradually being filled, so that the floras of even the most distant parts of the world are fairly represented on our shelves.

The work of revising the various families so as to bring the nomenclature in accord with modern views, and which in former reports it was believed could scarcely be accomplished without the employment of experts to be especially engaged for the purpose, still remains to be done—but the voluntary labors of several distinguished botanists have aided us the past year to a good beginning for even this herculean task, and we may hope that it will not be very long before the whole is treated in the same way.

It is no derogation to the assistance we have received from many members and friends to say that much of the excellent progress made is due to the energy of our Conservator Mr. John H. Redfield, whose report in detail has been adopted by the Section as part of this report.

THOMAS MEEHAN,
Vice-Director.

The Conservator reports that the work of the past year has been mainly directed to the improvement of the condition of the Academy's valuable Herbarium, and this labor has been interrupted only by the necessary care and attention bestowed upon the constant new accessions to its stores.

The order-tablets and genus lists for the North American Herbarium have been completed.

Mr. Isaac C. Martindale has carefully elaborated and catalogued the species of Clematis, Anemone, and one or two other allied genera, both in the general and in the North American departments, a tedious and difficult labor which has revealed both the extent and the weaknesses of our collection. Mr. Charles F. Parker has also neatly mounted these species, and the work of these two gentlemen, while only the beginning of a gigantic task, is a model for future workers.

Dr. Asa Gray, of Cambridge, has during the year revised for us some of the most perplexing of the genera of the North American Compositæ, such as Vernonia, Solidago, Chrysopsis, etc., and Mr. Parker is securing to us the result of this labor, by mounting the plants (with Dr. Gray's notes affixed) as fast as elaborated.

Mr. Bebb, who, in 1878, worked out for us the willows of our North American Herbarium, has this year performed a similar service upon those of the general Herbarium, with infinite addition to their scientific value.

Mr. F. L. Scribner has continued his careful and scrutiuizing work upon our grasses, mounting them as he progresses, and we may expect an early completion of so much of the work as relates to the North American Herbarium.

The Conservator has mounted and ticketed that portion of the North American Herbarium which extends from the Order Goodeniaceæ to Order Gentianaceæ inclusive, and hopes to continue the work.

The accessions to our collection have been constant, extensive, and valuable. The number of species received during the year has been 2181, of which a good proportion were new to our shelves. All these have been carefully poisoned, labeled, mounted, and distributed in the proper orders. Mr. C. F. Parker has been of most essential service in this work, giving us many hours of labor over and above his engagements with the Academy.

Among the valuable additions of the year may be specially mentioned 623 species of Florida plants, embracing many new and rare species, collected by Dr. A. P. Garber, of Columbia, Pa., and by him generously presented to the Academy; and many hundreds of rare plants from Northern and Central Asia, Northern, Southern, and Central Africa, Borneo, Kerguelen Land, Polynesia, California, Oregon, etc., presented by Dr. Asa Gray, of Cambridge, Mass.

A complete list of the donations during the year is appended to the report now respectfully submitted.

JOHN H. REDFIELD,
Conservator.

Additions to Botanical Museum and Herbarium, 1879.

January. Dr. Asa Gray; 174 species of plants from Northern and Central Asia, Borneo, Polynesia, and Africa, and 37 species mostly from California, Nevada, and Washington Territory.

February. Dr. James Hamer, Collegeville, Montgomery Co., Pa.; specimen of *Phallus*, in spirits.

March. Wm. M. Canby, Wilmington, Del.; *Callisia*, collected in Florida, by Miss Mary C. Reynolds.

April. Dr. George E. Post, of American Protestant College, Beirut, Syria; 189 species of Syrian plants, being a third instalment sent in exchange for Colorado and Utah plants.

- Dr. Asa Gray; 60 species plants, collected by Hooker and Ball in Marocco in 1871; 22 species from Southern Europe; 55 species of Carices from Sweden and Lapland, and 3 species North American plants.
- Dr. A. P. Garber, Columbia, Pa.; 555 species of plants collected by him mostly near Manatee, Florida.
- John H. Redfield; 102 species European plants, mostly from Buda-Pesth, Hungary; also *Asplenium mucronatum*, from Tijuca, Brazil.
- Thomas Mehan; *Viola Beckwithii*, collected in Washington Territory, by Mrs. F. E. Putuam.
- Dr. J. A. Warder, Cincinnati, O.; sections of wood of *Catalpa bignonioides*, variety *speciosa*.
- May. Dr. Asa Gray; 49 species plants, collected in Kerguelan Land, by J. H. Kidder, of British Transit Expedition, and 73 species collected mostly in Northern Bornco, by F. W. Burbridge.
- John H. Redfield; 29 species of plants, collected by Dr. C. C. Parry and Dr. E. Palmer, chiefly in the region of San Luis Potosi, Mexico, in 1878.
- Dr. C. C. Parry, of Davenport, Ia.; part of a saddle-cloth in common use in Mexico, made from the fibre of *Yucca*.
- Wm. M. Canby; *Shortia galicifolia*, collected by M. E. Hyams, in McDowell Co., N. C.; also *Baptisia sulphurea*, from Limestone Gap, Indian Territory, collected by G. D. Butler.
- Isaac C. Martindale; Ellis's 2d Century of North American Fungi, being 100 species of Fungi, neatly mounted in book form.
- June. Miss E. S. Boyd; 37 species ferns from Sandwich Islands.
- George E. Davenport, Boston, Mass.; 5 species ferns, from Florida.
- Wm. M. Canby; 2 species California ferns, new to the collection.
- Ashmead Bros., Jacksonville, Fla., through Dr. G. H. Horn; *Sarracenia variolaris*, Mx., from Florida.
- A. L. Siler, of Osmer, Utah; Cones of *Abies Engelmanni*, from Kanab Cañon, Southern Utah.
- September. Dr. Asa Gray; 64 species plants, mostly from Oregon and California.

John H. Redfield; 282 species plants, collected by Dr. C. C. Parry and Dr. E. Palmer in 1878, chiefly in the region of San Luis Potosi, Mexico; also 81 species, collected in Western North Carolina in June 1879, by Dr. Asa Gray, Wm. M. Canby, C. S. Sargent, and J. H. Redfield; also *Aspidium aculeatum* Sw. var. *Braunii*, collected in Bushnellsville Clove, Catskill Mts.

Dr. A. P. Garber; 68 species of Florida plants, collected by him, supplementary to the collection received from him in April, most of these being new or rare species.

Isaac C. Martindale; *Teucrium occidentale* Gr., collected by him on banks of Delaware River, below Philadelphia.

October. Dr. Asa Gray; 47 species of phanerogamous plants from Mexico and West Indies, and 12 mosses from Borneo.

Titian R. Peale; *Drosera filiformis*, from Ocean Grove, N. J.

November. Wm. M. Canby; 18 species North American plants, nearly all new to the collection.

Chas. F. Parker; *Epiphegus Virginiana* Bart. var. *Rauana*, collected by C. F. Austin, on High Peak, Catskill Mts., N. Y.

December. Isaac C. Martindale; 96 species plants, some from New Zealand, but mostly foreign species collected on the ballast deposits in the neighborhood of Philadelphia.

Dr. Geo. Engelmann, St. Louis, Mo.; 5 varieties of *Quercus*, mostly hybrids.

Prof. Thos. C. Porter, Lafayette College, Easton, Pa.; *Solidago Buckleyi*, from Monticello, Ga.

Susannah Kite, Friends Library, Germantown, Phila.; *Clematis Scottii* Porter, from Colorado.

Thos. Meehan; *Salicornia arbuscula* R. Br., from Victoria, Australia, collected by Baron von Müller.

REPORT OF THE MINERALOGICAL SECTION.

The Director of the Mineralogical Section of the Academy of Natural Sciences, would respectfully report that meetings of the Section have been held regularly every month, except July and August. The attendance has been larger than in the prior year, and there has been no lack of interest.

Reference to the annexed list of donations will show that the increase of the collection of the Academy has been satisfactory.